

FIG. 1

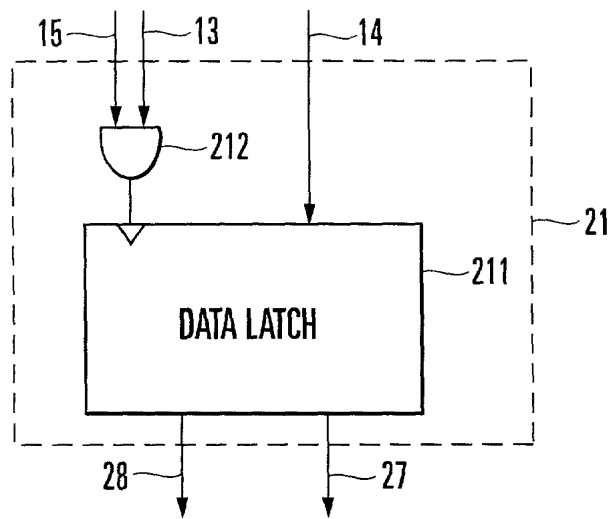


FIG. 2

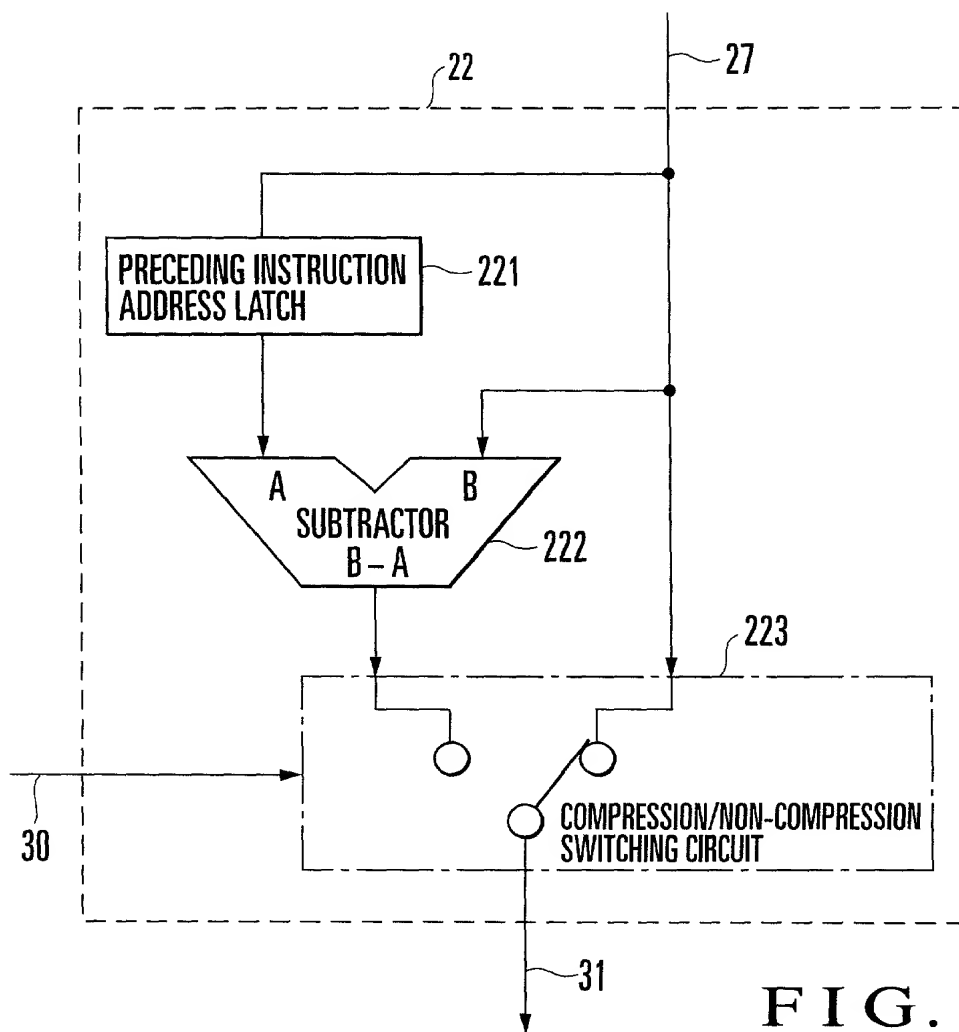


FIG. 3

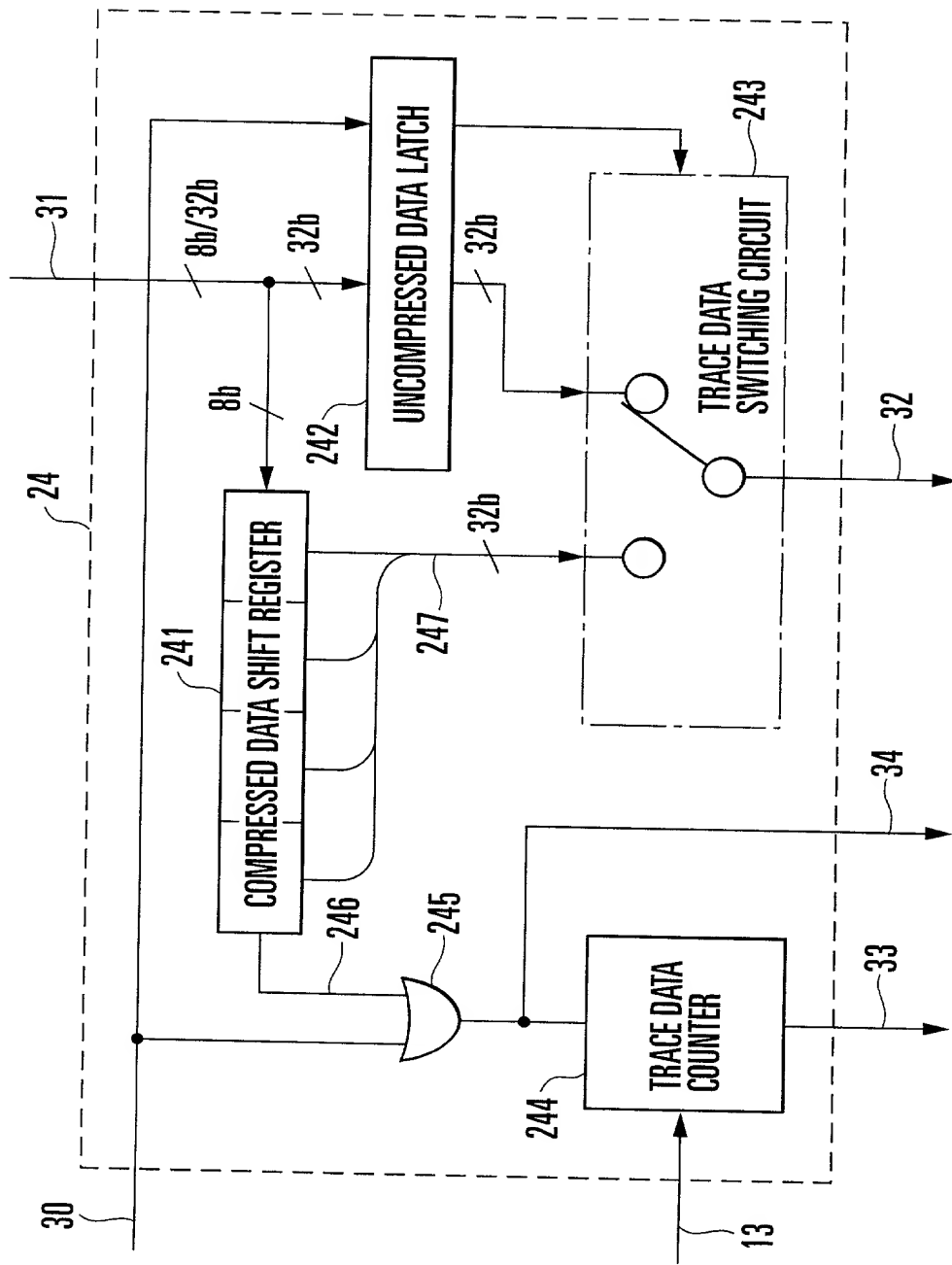


FIG. 4

	INSTRUCTION ADDRESS	INSTRUCTION CODE	MIMONIC
	0x00001000	40160004	movhi 0x400,r0,r2
	0x00001004	221660f0	movea 0xf060,r2,r2
	0x00001008	00801734	loop: ld.h 0x0080[r0],r20
INSTRUCTION 4	0x0000100C	40160004	movhi 0x400,r0,r2
INSTRUCTION 5	0x00001010	221662f0	movea 0xf062,r2,r2
INSTRUCTION 6	0x00001014	3241	add 0x01,r10
INSTRUCTION 7	0x00001016	629f0000	st.h r19,0x0[r2]
INSTRUCTION 8	0x0000101A	20168af4	movea 0xb76,r0,r2
INSTRUCTION 9	0x0000101E	209e5555	movea 0x5555,r0,r19
INSTRUCTION 10	0x00001022	629f0000	st.h r19,0x0[r2]
INSTRUCTION 11	0x00001026	20166ef0	movea 0xf06e,r0,r2
...
INSTRUCTION 20	0x00001046	221686f4	movea 0xf486,r2,r2
INSTRUCTION 21	0x0000104A	209e1111	movea 0x1111,r0,r19
INSTRUCTION 22	0x0000104E	629f0000	st.h r19,0x0[r2]
INSTRUCTION 23	0x00001052	3a88	str 0x08,r7
INSTRUCTION 24	0x00001054	3241	add 0x01,r6
INSTRUCTION 25	0x00001056	4264	cmp 0x04,r8
INSTRUCTION 26	0x00001058	fda6	blt loop
INSTRUCTION 27	0x0000105A	0000	nop

FIG. 5

FIG. 6A CLOCK SIGNAL 13



FIG. 6B INSTRUCTION ADDRESS IN INSTRUCTION ADDRESS/INSTRUCTION CODE DATA 14

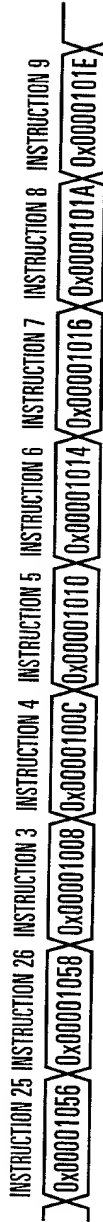


FIG. 6C INSTRUCTION ADDRESS 27



FIG. 6D BRANCH INSTRUCTION DETECTION SIGNAL 29



FIG. 6E COMPRESSED INSTRUCTION ADDRESS 31



FIG. 6F TRACE DATA 32



FIG. 6G ALIGNMENT COMPLETION SIGNAL 246



FIG. 6H TRACE DATA WRITE SIGNAL 34



FIG. 6I TRACE MEMORY ADDRESS 33



	TRACE MEMORY ADDRESS	COMPRESSION FLAG	DATA IN TRACE MEMORY	RECONSTRUCTED ADDRESS
INSTRUCTION 3	00000	0	0x00001008	0X00001008
INSTRUCTION 4	00001	1	0x4	0X0000100C
INSTRUCTION 5	00001	1	0x4	0X00001010
INSTRUCTION 6	00001	1	0x4	0X00001014
INSTRUCTION 7	00001	1	0x2	0X00001016
INSTRUCTION 8	00002	1	0x4	0X0000101A
INSTRUCTION 24	00006	1	0x2	0X00001054
INSTRUCTION 25	00006	1	0x2	0X00001056
INSTRUCTION 26	00006	1	0x2	0X00001058
INSTRUCTION 3	00007	0	0x00001008	0X00001008
INSTRUCTION 4	00008	1	0x4	0X0000100C

FIG. 7

FIG. 8

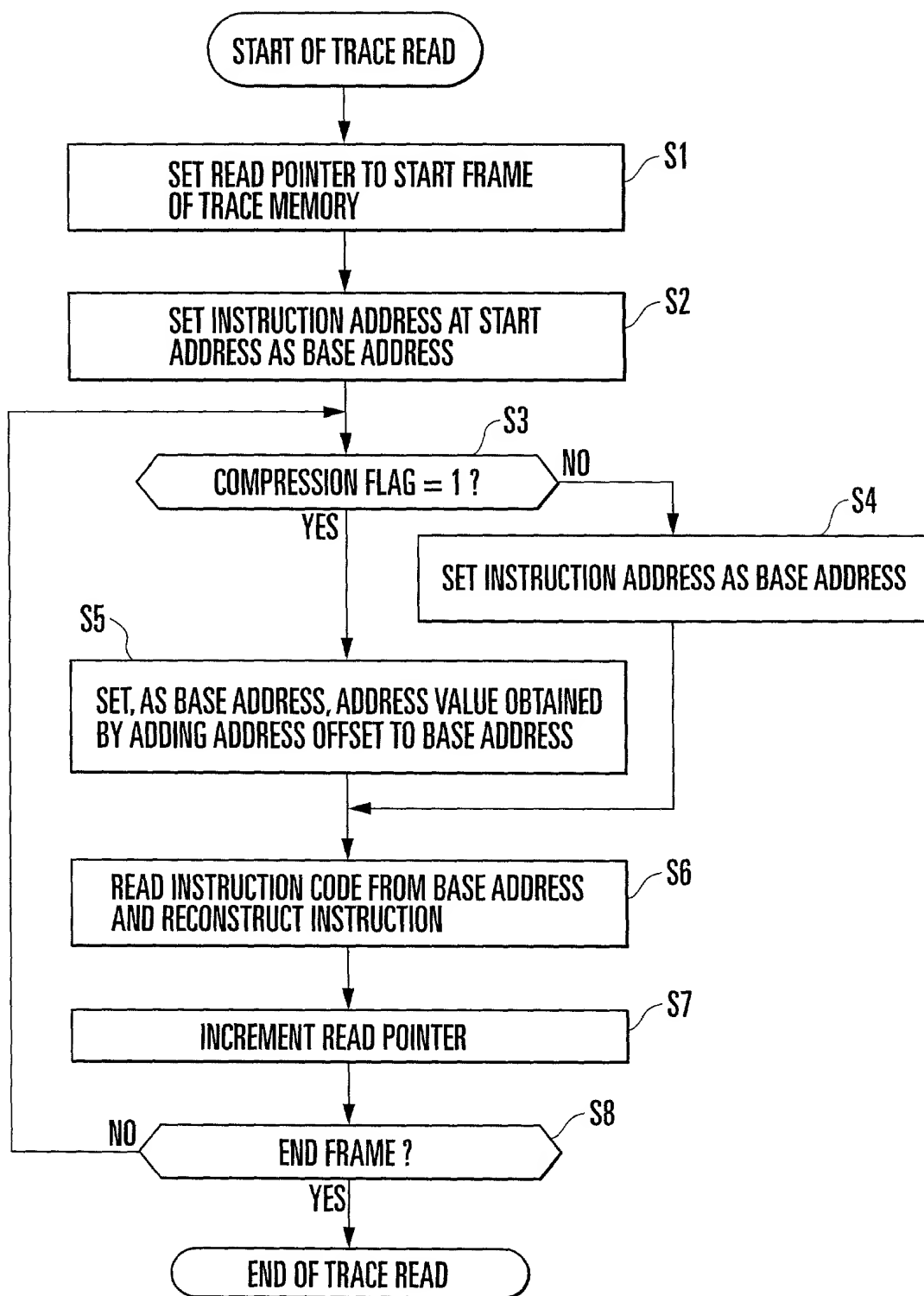
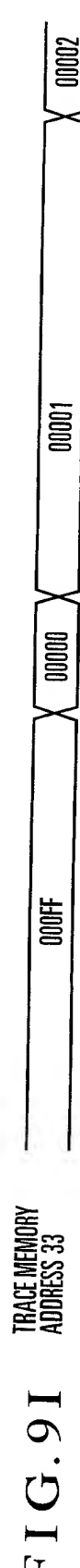
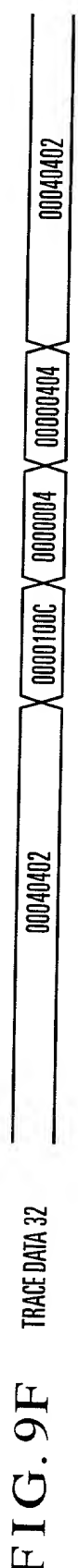
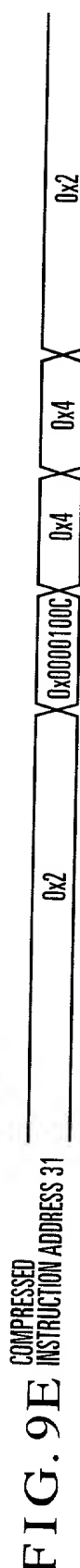
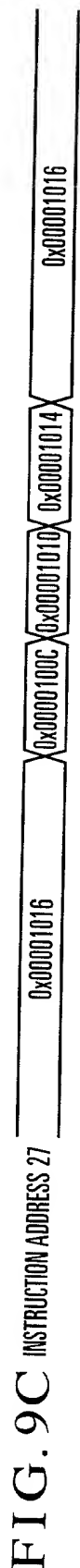
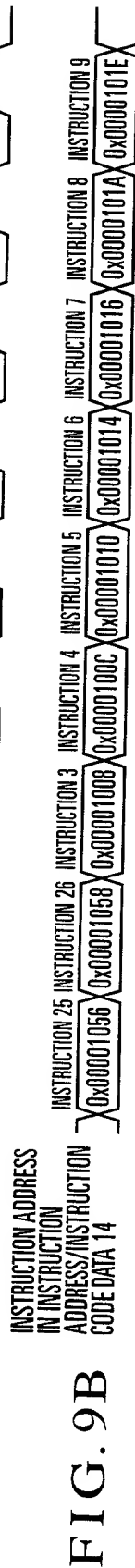
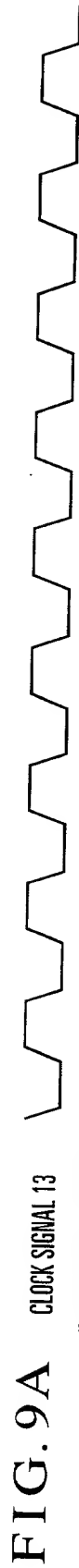


FIG. 8



	COMPRESSING FLAG	DATA IN TRACE MEMORY	RECONSTRUCTED ADDRESS
INSTRUCTION 7	1	0x2	0X00001016
INSTRUCTION 4	0	0x0000100C	0X0000100C
INSTRUCTION 5	1	0x4	0X00001010
INSTRUCTION 6	1	0x4	0X00001014
INSTRUCTION 7	1	0x2	0X00001016
INSTRUCTION 4	0	0x0000100C	0X0000100C
INSTRUCTION 5	1	0x4	0X00001010
INSTRUCTION 6	1	0x4	0X00001014
INSTRUCTION 7	1	0x2	0X00001016

FIG. 10

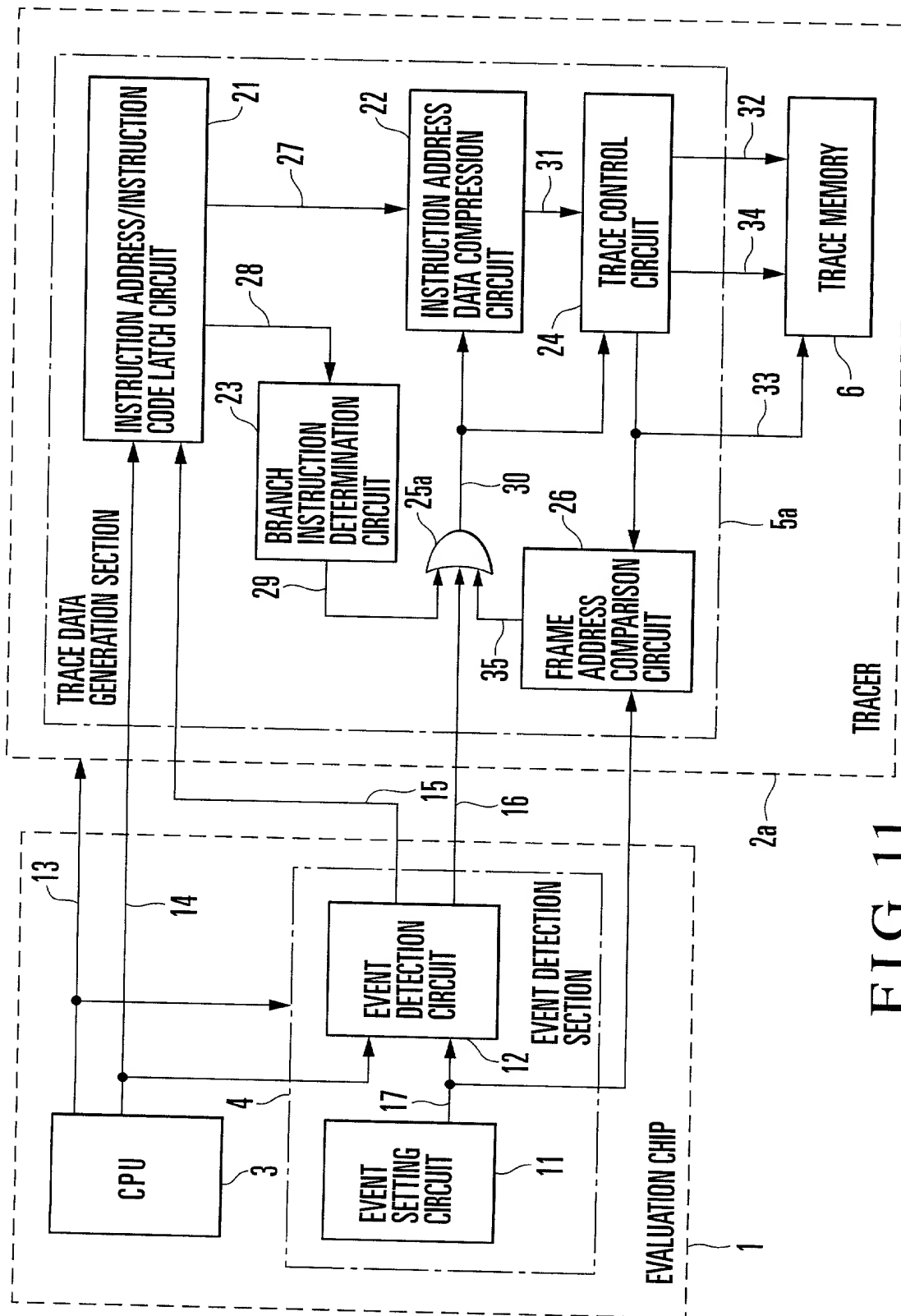


FIG. 11

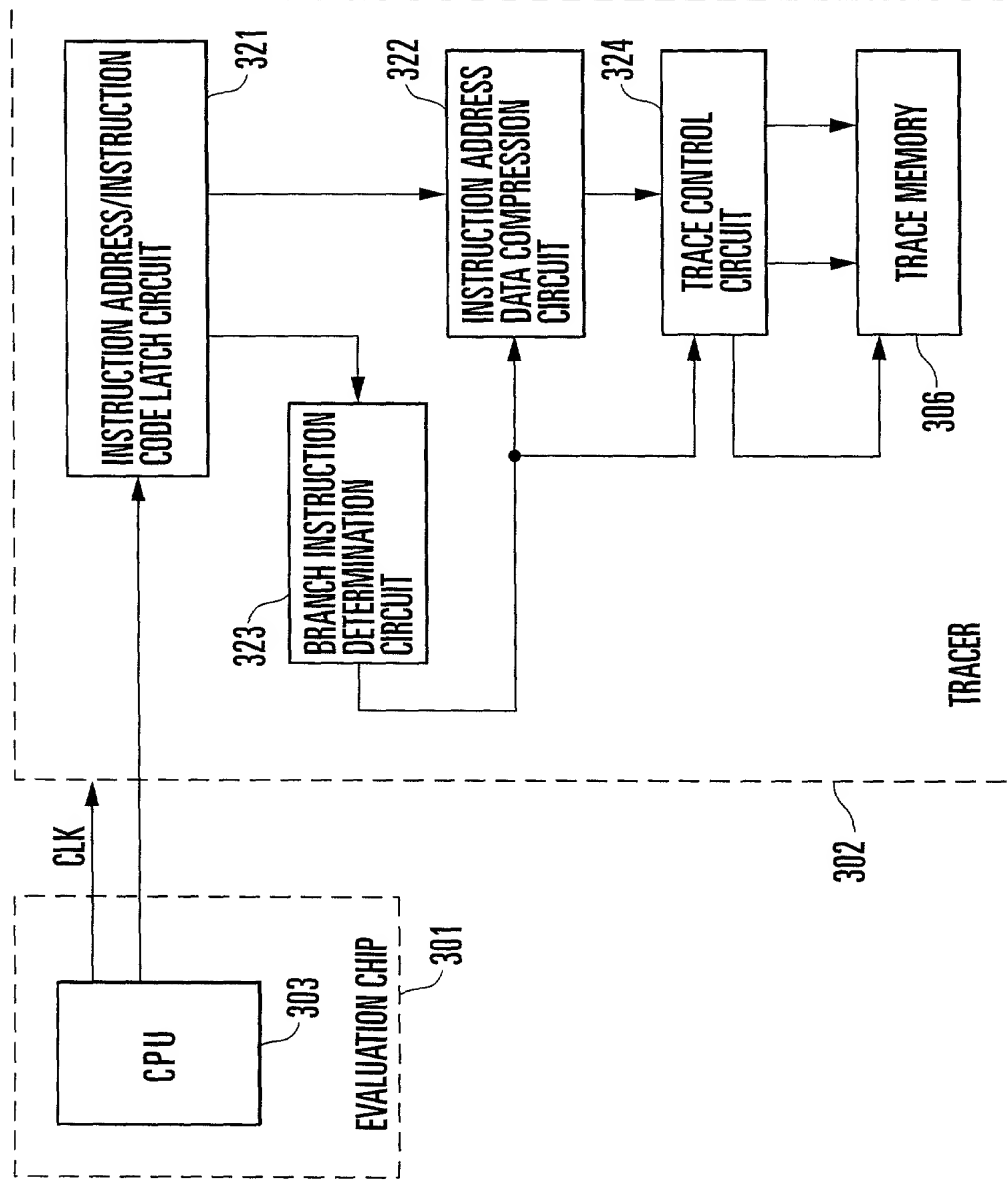


FIG. 12
PRIOR ART